

# Luban HD-F6057

(Legacy name: Luban EG HD-1059)

## High Density Polyethylene



### Description

Luban HD-F6057 High Density Polyethylene Resin is Blown film extrusion grade. It is recommended in applications where protection against oxygen and moisture is critical. This includes applications such as deli wraps, food packaging, cereal box liners, and other similar applications. This resin is excellent for multi-wall applications.

Main Characteristics:

- Blown film extrusion

### Application

all PE laminates, Lami-tube, high stiff PE films, Stand up pouch, food Packaging film.

### Properties (Typical Values)

Property	Unit	Test method	Value
Melt Index (190°C/2.16 kg)	min	ASTM D1238	0.85
Melt Index (190°C/21.6 kg)	g/10 min	ASTM D1238	57
Density	g /cm <sup>3</sup>	ASTM D792	0.961
Elmendorf Tear Strength (MD/TD)	g	ASTM D1922	18/50
Tensile Strength @ yield (MD/TD)	MPa	ASTM D882*	34.5/35.2
Tensile Elongation @ break (MD/TD)	%	ASTM D882*	330/410
Dart Drop Impact (12.7 µm)	g	ASTM 1709A*	130
Vicat Softening Temperature	°C	ASTM D1525	130
Melting Temperature (DSC)	°C	ASTM D3418	133
Oxygen Permeability	cm <sup>3</sup> ·mm/m <sup>2</sup> /at m/24 hr	ASTM D3985	35
Water Vapor Transmission	g/m <sup>2</sup> /24 hr	ASTM E96	1.0

\*Tested on Blown film fabricated at: Melt Temperature: 375-400°F (190-205°C), Blow-Up Ratio: 1.8 : 3.2

**Note:** These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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### Storage and Handling

Luban HD-F6057 should be stored in well-ventilated area during handling or processing of to prevent accumulation of dust and fumes. Avoid contact with strong oxidizers, excessive heat, sparks or open flame as this could well speed up alteration and consequently loss of quality of the material in which could lead to unforeseen dangers. The bags must be protected from direct sunlight and should be stored in shaded and completely dry area for good processing.

### Safety

Luban HD-F6057 is not classified as dangerous preparation. For further information about safety in handling and processing please refer to the Safety Data Sheet.

### Food Contact

Luban HD-F6057 meets the requirements of the U.S. Food and Drug Administration (FDA) as specified in 21 CFR 177.1520, covering safe use of polyolefin articles and components of articles intended for direct food contact. For additional information on approved conditions of use for food contact applications, please refer to the "Product Stewardship Declaration".

### Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

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#### Disclaimer:

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